



Basic Patent (Number,Kind,Date): EP 723072 A1 19960724

Patent Family:

Patent Number	Kind	Date	Application Number	Kind	Date
<u>EP 723072</u>	A1	19960724	EP 96100543	A	19960116 (Basic)
<u>EP 844378</u>	A2	19980527	EP 98100995	A	19960116
<u>EP 1050673</u>	A2	20001108	EP 2000116245	A	19960116
<u>EP 1050674</u>	A2	20001108	EP 2000116246	A	19960116
<u>EP 844378</u>	A3	19990901	EP 98100995	A	19960116
<u>EP 1050673</u>	A3	20001115	EP 2000116245	A	19960116
<u>EP 1050674</u>	A3	20001115	EP 2000116246	A	19960116
<u>JP 8254129</u>	A2	19961001	JP 964529	A	19960116
<u>US 5868114</u>	A	19990209	US 969708	A	19971124

Priority Data:

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JP 954673	A	19950117
JP 956189	A	19950119
EP 96100543	A3	19960116
JP 964529	A	19960116
US 969708	A	19971124
US 583794	B1	19960116

PATENT FAMILY:

European Patent Office (EP)

Patent (Number,Kind,Date): EP 723072 A1 19960724

AIR FLOW RATE CONTROL APPARATUS (English; French; German)

Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)

Author (Inventor): KAMIMURA YASUHIRO (JP); SASAKI YASUSHI (JP); AOKI SADAYUKI (JP); NAGAYAMA KAZUO (JP)

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Designated States: (National) DE; FR; GB; IT

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Patent (Number,Kind,Date): EP 844378 A2 19980527
AIR FLOW RATE CONTROL APPARATUS (English; French; German)
Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)
Author (Inventor): KAMIMURA YASUHIRO (JP); SASAKI YASUSHI (JP); AOKI
SADAYUKI (JP); NAGAYAMA KAZUO (JP)
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Designated States: (National) DE; FR; GB; IT
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Patent (Number,Kind,Date): EP 1050673 A2 20001108
AIR FLOW RATE CONTROL APPARATUS (English; French; German)
Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)
Author (Inventor): KAMIMURA YASUHIRO (JP); SASAKI YASUSHI (JP); AOKI
SADAYUKI (JP); NAGAYAMA KAZUO (JP)
Priority (Number,Kind,Date): EP 96100543 A3 19960116; JP 954673 A 19950117; JP 956189 A
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Designated States: (National) DE; FR; GB; IT
IPC: * F02D-011/00; F02D-009/08
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Language of Document: English
Patent (Number,Kind,Date): EP 1050674 A2 20001108
AIR FLOW RATE CONTROL APPARATUS (English; French; German)
Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)
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SADAYUKI (JP); NAGAYAMA KAZUO (JP)
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Designated States: (National) DE; FR; GB; IT
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Language of Document: English
Patent (Number,Kind,Date): EP 844378 A3 19990901
AIR FLOW RATE CONTROL APPARATUS (English; French; German)
Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)
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SADAYUKI (JP); NAGAYAMA KAZUO (JP)
Priority (Number,Kind,Date): EP 96100543 A3 19960116; JP 954673 A 19950117; JP 956189 A
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AIR FLOW RATE CONTROL APPARATUS (English; French; German)

Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)

Author (Inventor): KAMIMURA YASUHIRO (JP); SASAKI YASUSHI (JP); AOKI SADAYUKI (JP); NAGAYAMA KAZUO (JP)

Priority (Number,Kind,Date): EP 96100543 A3 19960116; JP 954673 A 19950117; JP 956189 A 19950119

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Designated States: (National) DE; FR; GB; IT

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Patent (Number,Kind,Date): EP 1050674 A3 20001115

AIR FLOW RATE CONTROL APPARATUS (English; French; German)

Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)

Author (Inventor): KAMIMURA YASUHIRO (JP); SASAKI YASUSHI (JP); AOKI SADAYUKI (JP); NAGAYAMA KAZUO (JP)

Priority (Number,Kind,Date): EP 96100543 A3 19960116; JP 954673 A 19950117; JP 956189 A 19950119

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Number	Type	Date	Code	Text
EP 723072	P	19950117	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG)) JP 954673 A 19950117
EP 723072	P	19950119	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG)) JP956189 A 19950119
EP 723072	P	19960116	EP AE	EP-APPLICATION (EUROPAEISCHE ANMELDUNG) EP 96100543 A 19960116
EP 723072	P	19960724	EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT: (IN EINER ANMELDUNG BENANNT VERTRAGSSTAATEN) DE FR GB IT
EP 723072	P	19960724	EP A1	PUBLICATION OF APPLICATION (VEROEFFENTLICHUNG DER ANMELDUNG MIT

			WITH SEARCH REPORT	RECHERCHENBERICHT)
EP 723072	P	19960724 EP 17P	REQUEST FOR EXAMINATION FILED 960116	(PRUEFUNGSANTRAG GESTELLT)
EP 723072	P	19970917 EP 17Q	FIRST EXAMINATION REPORT 970801	(ERSTER PRUEFUNGSBESCHEID)
EP 723072	P	19980527 EP AH	DIVISIONAL APPLICATION (ART. 76) IN: EP 844378 P	(TEILANMELDUNG (ART. 76) IN:)
EP 723072	P	20000927 EP RAHF	DIVISIONAL APPLICATION (ART 76) IN: (CORRECTION) 844378 EP 98100995 A 19980121	(TEILANMELDUNG (ART. 76) IN: (KORR.))
EP 723072	P	20000927 EP RAHF	DIVISIONAL APPLICATION (ART 76) IN: (CORRECTION) EP 2000116245 A 20000808	(TEILANMELDUNG (ART. 76) IN: (KORR.))
EP 723072	P	20000927 EP RAHF	DIVISIONAL APPLICATION (ART 76) IN: (CORRECTION) EP 2000116246 A 20000808	(TEILANMELDUNG (ART. 76) IN: (KORR.))
EP 723072	P	20001108 EP AH	DIVISIONAL APPLICATION (ART. 76) IN: EP 1050673 P	(TEILANMELDUNG (ART. 76) IN:)
EP 723072	P	20001108 EP AH	DIVISIONAL APPLICATION (ART. 76) IN: EP 1050674 P	(TEILANMELDUNG (ART. 76) IN:)
EP 844378	P	19950117 EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))

			JP 954673 A 19950117	
EP 844378	P	19950119 EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
			JP 956189 A 19950119	
EP 844378	P	19960116 EP AA	DIVIDED OUT OF	(AUSSCHIEDUNG AUS)
			EP 96100543 A3 19960116	
EP 844378	P	19960116 EP AE	EP-APPLICATION	(EUROPAEISCHE ANMELDUNG)
			EP 98100995 A 19960116	
EP 844378	P	19980527 EP AC	DIVISIONAL APPLICATION (ART. 76) OF:	(TEILANMELDUNG (ART. 76) AUS:)
			EP 723072 P	
EP 844378	P	19980527 EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:	(IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
			DE FR GB IT	
EP 844378	P	19980527 EP A2	PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT	(VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)
EP 844378	P	19980527 EP 17P	REQUEST FOR EXAMINATION FILED	(PRUEFUNGSANTRAGGESTELLT)
			980121	
EP 844378	P	19990901 EP AK	DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:	(IN EINEM RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
			DE FR GB IT	
EP 844378	P	19990901 EP A3	SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)	(GESONDERTE VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))
EP 844378	P	20010117 EP 17Q	FIRST EXAMINATION	(ERSTER PRUEFUNGSBESCHIED)

REPORT

20001130

EP 1050673	P	19950117 EP AA	PRIORITY (PATENT APPLICATION) JP 954673 A 19950117	(PRIORITAET (PATENTANMELDUNG))
EP 1050673	P	19950119 EP AA	PRIORITY (PATENT APPLICATION) JP 956189 A 19950119	(PRIORITAET (PATENTANMELDUNG))
EP 1050673	P	19960116 EP AA	DIVIDED OUT OF EP 96100543 A3 19960116	(AUSSCHIEDUNG AUS)
EP 1050673	P	19960116 EP AE	EP-APPLICATION EP 2000116245 A 19960116	(EUROPAEISCHE ANMELDUNG)
EP 1050673	P	20001108 EP AC	DIVISIONAL APPLICATION (ART. 76) OF: EP 723072 P	(TEILANMELDUNG (ART. 76) AUS:)
EP 1050673	P	20001108 EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT: DE FR GB IT	(IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)
EP 1050673	P	20001108 EP A2	PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT	(VEROEFFENTLICHUNG DERANMELDUNG OHNE RECHERCHENBERICHT)
EP 1050673	P	20001108 EP 17P	REQUEST FOR EXAMINATION FILED 200000808	(PRUEFUNGSANTRAG GESTELLT)
EP 1050673	P	20001115 EP AK	DESIGNATED CONTRACTING STATES IN A SEARCH REPORT: DE FR GB IT	(IN EINEM RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)
EP	P	20001115 EP A3	SEPARATE	(GESONDERTE

1050673				PUBLICATION OF THE SEARCH REPORT (ART. 93)	VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))
EP 1050673	P	20001115	EP RIC1	CLASSIFICATION (CORRECTION) 7F 02D 11/10 A	(KLASSIFIKATION (KORR.))
EP 1050673	P	20010221	EP RIN1	INVENTOR (CORRECTION) KAMIMURA, YASUHIRO ; SASAKI, YASUSHI ; AOKI, SADAYUKI ; NAGAYAMA, KAZUO	(ERFINDER (KORR.))
EP 1050674	P	19950117	EP AA	PRIORITY (PATENT APPLICATION) JP 954673 A 19950117	(PRIORITAET (PATENTANMELDUNG))
EP 1050674	P	19950119	EP AA	PRIORITY (PATENT APPLICATION) JP 956189 A 19950119	(PRIORITAET (PATENTANMELDUNG))
EP 1050674	P	19960116	EP AA	DIVIDED OUT OF EP 96100543 A3 19960116	(AUSSCHIEDUNG AUS)
EP 1050674	P	19960116	EP AE	EP-APPLICATION EP 2000116246 A 19960116	(EUROPAEISCHE ANMELDUNG)
EP 1050674	P	20001108	EP AC	DIVISIONAL APPLICATION (ART. 76) OF: EP 723072 P	(TEILANMELDUNG (ART. 76) AUS:)
EP 1050674	P	20001108	EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT: DE FR GB IT	(IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)
EP 1050674	P	20001108	EP A2	PUBLICATION OF APPLICATION WITHOUT SEARCH	(VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)

REPORT

EP 1050674	P	20001108	EP 17P	REQUEST FOR EXAMINATION FILED 20000808	(PRUEFUNGSANTRAG GESTELLT)
EP 1050674	P	20001115	EP AK	DESIGNATED CONTRACTING STATES IN A SEARCH REPORT: DE FR GB IT	(IN EINEM RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)
EP 1050674	P	20001115	EP A3	SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)	(GESONDERTE VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))
EP 1050674	P	20001115	EP RIC1	CLASSIFICATION (CORRECTION) 7F 02D 11/10 A	(KLASSIFIKATION (KORR.))
EP 1050674	P	20010228	EP RIN1	INVENTOR (CORRECTION) KAMIMURA, YASUHIRO ; SASAKI, YASUSHI ; AOKI, SADAYUKI ; NAGAYAMA, KAZUO	(ERFINDER (KORR.))

Japan (JP)

Patent (Number,Kind,Date): JP 8254129 A2 19961001

THROTTLE VALVE CONTROLLER OF INTERNAL COMBUSTION ENGINE (English)

Patent Assignee: HITACHI LTD; HITACHI KAA ENG KK

Author (Inventor): KAMIMURA YASUHIRO; SASAKI YASUSHI; AOKI SADAYUKI;
NAGAYAMA KAZUO

Priority (Number,Kind,Date): JP 964529 A 19960116; JP 954673 A 19950117; JP 956189 A 19950119

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Language of Document: Japanese

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Patent (Number,Kind,Date): US 5868114 A 19990209

AIR FLOW RATE CONTROL APPARATUS (English)

Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)

Author (Inventor): KAMIMURA YASUHIRO (JP); SASAKI YASUSHI (JP); AOKI
SADAYUKI (JP); NAGAYAMA KAZUO (JP)

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Language of Document: English

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US 5868114	P	19950117	US AA	PRIORITY (PATENT)	
				JP 954673 A 19950117	
US 5868114	P	19950119	US AA	PRIORITY (PATENT)	
				JP 956189 A 19950119	
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				US 583794 B1 19960116	
US 5868114	P	19971124	US AE	APPLICATION DATA (PATENT)	(APPL. DATA (PATENT))
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US 5868114	P	19990209	US A	PATENT	

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